



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

10/673,207

09/30/2003

Hyung-Jong Kang

101-1004

9591

38209

7590

09/15/2010

STANZIONE & KIM, LLP

919 18TH STREET, N.W.

SUITE 440

WASHINGTON, DC 20006

EXAMINER

SARPONG, AKWASI

ART UNIT

PAPER NUMBER

2625

MAIL DATE

DELIVERY MODE

09/15/2010

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/673,207	Applicant(s) KANG ET AL.	
	Examiner AKWASI M. SARPONG	Art Unit 2625	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 30 June 2010.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 43,45-48,51 and 57 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 43,45,46,47,48,51 and 57 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 30 September 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>10/27/2005</u> . | 6) <input type="checkbox"/> Other: _____ |

Detailed Action

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

1. Claim 43 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Applicant claims an image forming device. However in the specification and the drawings do not have support for an image forming device. It is understood that an image forming device means one unit that contains the printing unit and the scanning unit. However there no section or drawings in both the specification and the drawings that teaches such a unit. Hence both scanning unit 16 and printing unit 18 are two separate devices and there is no where in both the drawings and specification that they form one device.
2. Claims 45-48,51 and 57 are also rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement because they depend on claim 43.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claim 48 recites the limitation "a display unit for displaying information about the **image forming apparatus**---- a manipulation unit for manipulating the **image forming apparatus**. There is insufficient antecedent basis for this limitation in the claim because the claimed image forming apparatus is not previously mentioned or claimed anywhere in the claim.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

1. Claims 43, 45, 47, 48, 51 and 57 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chen (7019869) in view of Ito (6937356) and further in view of McAfee (6510211)

Claim 43, Chen discloses an image forming device (**Col. 5 lines 63-64, Fig. 4**) comprising:

a printing unit (**Printer 482 shown in Fig. 4**) to print an image on a print medium (**Col. 6 lines 12-13- "Printer 482"**)

a scanning unit including a scanner (**Col. 3 line 25, image scanning unit 110**) to scan a document to generate scanned data (**Col. 5 line 67- apparatus 400 includes a scanning unit**).

Universal serial bus (USB) input/output port (**USB interface 471 shown in Fig. 4**) removably connectable to a USB memory unit (**USB equipment 481 shown in Fig. 4**) and

a control unit (**Control unit 140- Col. 3 lines 52-53**) coupled to the USB input/output port to detect an attachment state of the USB memory unit with respect to the USB input/output, (**Col. 6 lines 34-38 “the paperless image fax-scanning apparatus connects with the USB device 481 and the printer 482 permitting the user either to print or store the data using device 481” therefore the control unit has to detect that the USB is attached in order for the scanned image to be stored**).

wherein the control unit (**Control unit 140- Col. 3 lines 52-53**) is coupled to the scanning unit and operable to control storing of the scanned data storing of the scanned data generated by the scanning unit (**Col. 6 lines 37-38- thus scanned data is stored using the USB device 481 and Col. 5 lines 34-36 “the control unit within the system controls all these function and operations”**) according to the detected attachment state of the USB memory unit such that when it is determined that the USB memory unit is attached to the USB input/output port, (**Please see NB**) the control unit is operable to store the scanned data generated by the scanning unit in the U S B memory unit, (**Col. 6 lines 34-38- “ the paperless image fax-scanning apparatus**

Art Unit: 2625

under the control of control unit 140 connects with the USB device 481 and printer 482 permitting the user to either to print the fax data or the scanned data through a printer, or store the data using the USB device 481")

(NB: inherently the control unit 140 has to detect that USB device 481 is attached to the scanning apparatus before the scanned data can be stored therefore if the scanned data stored in the USB device that means that control unit 140 detects that the USB device is attached)

wherein the control unit is coupled to the printing unit and data stored in the USB memory unit (**Col. 6 lines 34-38- “ the paperless image fax-scanning apparatus under the control of control unit 140 connects with the USB device 481 and printer 482”)**)

Chen does not disclose when the USB memory unit is attached to the USB input/output port, the control unit is operable to print data stored in the USB memory unit via the printing unit.

Ito discloses when a flash memory card is mounted onto a printer unit 200 to select a picture and prints the picture. (**Col. 11 lines 1-3- thus “the user mounts the flash memory card 104 on the printer unit 200 to print a selected picture”**).

Therefore one ordinary skilled in the art at the time the invention was made with the teaching of mounting memory units or card onto printers as taught by Ito can modify the control unit in Chen to print the images which are stored on the USB memory unit so that time is saved in printing the scanned image. The motivation is that it will reduce time spend and also eliminate the need of a computer before printing a scanned image.

Chen in view of Ito does not disclose that both scanning 110 and printer 482 are in one unit and therefore forms one device.

McAfee discloses An MFP that provides the functionality of a scanner, copier, printer and a Facsimile machine in a single device. **(Col. 3 lines 8-10, Fig. 2 shows a device that contains a scanner and a printer as a single device)**. Therefore it will be obvious to one ordinary skilled in the art at the time the invention was made to include printer 482 into scanning apparatus 400 so that it will form one device. The motivation is that it will enable the user to scan and print using one unit.

Claim 44, (Cancelled)

Claim 45, Chen in view of Ito and further in view of McAfee discloses that the image forming device further comprising an internal storage unit **(Chen: Memory unit 260 in Fig. 2)** to store the scanned data generated by the scanning unit **(Chen: Col. 4 lines 39-41- thus memory device 260 shown in fig. 2 can be used to store the scanned image)**.

Claim 47, Chen in view of Ito and further in view of McAfee discloses wherein the control unit controls storing of the scanned data stored in the internal storage unit into the USB memory unit when it is determined that the USB memory, unit is attached to the USB input/output port. **(Chen: Col. 6 lines 34-38- “ the paperless image fax-scanning apparatus under the control of control unit 140 connects with the USB**

Art Unit: 2625

device 481 and printer 482 permitting the user to either to print the fax data or the scanned data through a printer, or store the data using the USB device 481")

(NB: inherently the control unit 140 has to detect that USB device 481 is attached to the scanning apparatus before the scanned data can be stored therefore if the scanned data stored in the USB device that means that control unit 140 detects that the USB device is attached)

Claim 48, Chen in view of Ito and further in view of McAfee further comprising : a display unit **(Chen: display panel 330 Col. 5 line 20)** for displaying information about the image forming apparatus **(Chen: Col. 5 lines 19-21- hence message about the scanned image is displayed on the panel)** and a manipulation unit **(Chen: Operation keyboard 340-Col. 4 lines 64-65)** for manipulating the image forming apparatus, wherein, if a plurality of pieces of scanned data are stored in the USB memory unit, at least one piece of the scanned data is selected by-using selectable via the manipulation unit. **(Ito: Col. 11 lines 1-3- the device used by the user to select a picture to print among all the pictures taking)**

Claim 49, -(Cancelled)

Claim 50, - (Cancelled)

Claim 51, Chen in view of Ito and further in view of McAfee further discloses a second input/output port **(Chen: Element 471 shown in Fig. 4)** removably connectable to a portable storage unit, **(Chen: Col. 6 lines 29-33- hence the Flash memory card can be connected and removed to be connected another device)** which is selected from the group consisting of a memory stick (MS), a compact flash (CF) card, a secure

Art Unit: 2625

digital (SD) memory card, **(Chen: Col. 6 lines 31, Flash memory card)** a multimedia card (MMC), a smart media (SM) card, a universal serial bus (USB) memory card, **(Chen: USB equipment 481 shown in fig. 4)** and an xD-picture card.

Claims 52-56 (Canceled)

Claim 57, Chen in view of Ito and further in view of McAfee discloses wherein the image forming device further comprising a third input/output port removably connectable to a portable storage unit which is selected from the group consisting of a memory stick (MS), a compact flash (CF) card, **(Chen: Element 420 shown in Fig. 4 is used for floppy disc- Col. 5 lines 22-25)** a secure digital (SD) memory card, a multimedia card (MMC), a smart media (SM) card, a universal serial bus (USB) memory card, and an xD-picture card.

2. Claims 46 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chen (7019869) in view of Ito (6937356) and further in view of McAfee (6510211) and further in view of Iwai (2002/0021766).

Claim 46, Chen in view of Ito and further in view of McAfee discloses wherein the control unit stores the scanned data in the internal storage unit **(Chen: Col. 4 lines 39-41- thus memory device 260 shown in fig. 2 can be used to store the scanned image) however** Chen in view of Ito and further in view of McAfee does not determined that USB memory unit is detached from the USB input/output port before the process continues.

Iwai discloses determine whether an external memory is attached and when it is not attached the IR reservation mode is used instead of the external memory. Therefore

Art Unit: 2625

it will be obvious to one ordinary skilled in the art at the time the invention was made to modify control unit 140 with the teaching of making the determination of the attachment of USB equipment 481 so that images sent to the equipment can be secured.

Response to Arguments

3. Applicant's arguments filed on 06/30/2010 have been fully considered but they are not persuasive.

Regarding claims 43 applicant argues that the reference on record does not teach or disclose the limitation

Printing data that is stored in the USB memory unit via the Printing unit of the image forming device.

In reply, Examiner respectfully disagree because Chen in view of Ito discloses Printing data that is stored in the USB memory unit via the Printing unit of the image forming device. (Ito discloses when a flash memory card is mounted onto a printer unit 200 to select a picture and prints the picture. **(Col. 11 lines 1-3- thus “the user mounts the flash memory card 104 on the printer unit 200 to print a selected picture”)**). Therefore one ordinary skilled in the art at the time the invention was made with the teaching of mounting memory units or card onto printers as taught by Ito can modify the control unit in Chen to print the images which are stored on the USB memory unit so that time is saved in printing the scanned image. The motivation is that it will reduce time spend and also eliminate the need of a computer before printing a scanned image.

Claims 45-48, 51 and 57, Applicant argues that claims **45-48, 51 and 57** is allowed because it depends on independent claim 43.

In reply, examiner respectfully disagree because as clearly discussed in the Office action independent claim 43 is not allowable.

Conclusion

4. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to AKWASI M. SARPONG whose telephone number is (571)270-3438. The examiner can normally be reached on Monday-Friday 8:00am-5:00pm est.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, King Poon can be reached on 571-272-7440. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/King Y. Poon/
Supervisory Patent Examiner, Art Unit 2625

/Akwasi M Sarpong/
Examiner, Art Unit 2625
09/09/2010

Application/Control Number: 10/673,207
Art Unit: 2625

Page 12